eMotion

ECG Mobile

Saving lives with right timing

Real time ECG measuring
Comfortable to wear solution
Cost effective monitoring
Wireless transmission of data
Protecting the heart is vital for people with cardiac diseases. Ensuring cardiac health and receiving required treatment on time is important in order to continue normal life with confidence.

*eMotion ECG Mobile* is a remote electrocardiography (ECG) monitoring system making this possible. **Continuous real time monitoring** is done at home or at work this way allowing normal everyday life. Safety of the patient is ensured and resources will be used more efficiently.

**Saving lives** - *eMotion ECG Mobile* is a unique, remote and real time ECG monitoring system. 24-hour continuous real time monitoring increases safety of the patient. Alarming system reports to monitoring center over the mobile network when symptoms are detected, this way making it possible to arrange treatment on time. Right timing of the treatment is the key in order to save lives.

**Confident living** - Constant heart monitoring made by professionals encourages patients to continue their normal life with confidence. Design of the ECG sensor enables continuing normal everyday life as it is very comfortable and undetectable to wear, also during sleep. Even charging the sensor can be done quickly without affecting to the daily routines of the patient.

**Cost effective patient monitoring** - In many patient monitoring cases the lack of resources is a serious problem. By using *eMotion ECG Mobile* it is possible for one specialist to monitor even hundreds of patients simultaneously anytime and anywhere. This enables early discharge of patients while making patient monitoring still easy and effective. Resources can be distributed and utilized more efficiently and the costs of patient monitoring will be reduced.
eMotion ECG Mobile solution

The ECG data is being transmitted from the ECG sensor to mobile phone via Bluetooth. Phone forwards the data over mobile network to server which stores the data. The data can be handled in two ways: with a web browser for analyzing purposes or with a real time monitoring view on a computer.

From the web browser a specialist can investigate and analyze thoroughly the stored ECG data. The analysis report can be sent to patient’s email immediately after its done. The monitoring view enables the monitoring of several patients simultaneously. Patient’s heart rate can be seen from the view, and alarms will indicate the problems detected on patients or devices and helps to decide actions. With additional blood pressure meter and scale with Bluetooth, it is possible to add patient’s blood pressure and weight information to the same monitoring view.

eMotion ECG Mobile software

eMotion ECG Mobile is a platform offering versatile functionalities for remote ECG monitoring:

- Real time ECG monitoring platform
- Alarming system for reporting problems with patients or device
- Browser based analysis platform
- Direct feedback over wireless connection
- Easy-to-understand reports

Technical specifications

**ECG sensor**

- Weight: 16g
- Dimensions: 35mm x 35mm x 15mm
- Sampling rate: up to 1000 Hz
- Functioning range: 100 m
- Accuracy: 1 ms
- Battery life: Bluetooth online up to 27 h (with 100 Hz)
- Recharging time: ca. 1 hour

Users of eMotion ECG in the USA please note: Caution - For research use only. Not for use in diagnostic procedures. Device may be used for non-clinical laboratory research.

Applications

Remote ECG measurement can be utilized in following fields:

- Research
- Ambulance care
- Pre/post heart surgery patients
- Cardiac patients
- People expecting heart problems
Map localizing option

To increase the safety of patients, there is also an option available for eMotion ECG Mobile software. Map localizing option gives the advantage for the monitoring center to see real time location of patients. In case of emergency every minute counts. With the help of GPS tracking, this option allows to save valuable time by providing the exact location of patient.

HRV Scanner software option

Using eMotion ECG sensor is also possible without the mobile solution. HRV Scanner software option offers you the possibility for online ECG measurements with the same ECG sensor. The software offers various online measurement protocols for clinical use such as deep breath test for diabetes and stress management. With the help of HRV Scanner, it is also possible to get HRV data from the measured raw ECG data. This enables the comprehensive use of the software for HRV analysis as well.

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To order or to get a quote, you can contact us using email mega@megaemg.com or phone +358 17 581 7700. If you are interested in getting more information about our product selection, please visit our website www.megaemg.com

Mega Electronics Ltd

Mega Electronics Ltd is a Finnish medical technology company specialized in biosignal monitoring for neurology, rehabilitation, occupational health and sports medicine since 1983. Company has developed a compact ambulatory technology to detect muscle activity on the skin surface both in laboratory and field conditions.